

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims.

1. (Currently Amended) Apparatus for lining an internal surface of a conduit, comprising the apparatus comprising: a body adapted to be progressively moved along the inside of the conduit for installing and a flexible tube structure ~~onto the internal surface, the flexible tube structure undergoing eversion within the conduit for installation thereof onto the internal surface of the conduit, the body presenting including~~ a contact surface against which the tube structure acts during eversion thereof, means for sensing and/or monitoring a plurality of selected conditions associated with installation of the flexible tube structure, and means for varying installation as necessary in response to one or more of said plurality of selected conditions.

2. (Original) Apparatus according to claim 1 wherein the contact surface has means for delivery of an agent to the everting portion of the tube structure.

3. (Original) Apparatus according to claim 2 wherein the means for delivery of the agent comprises a plurality of ports in the contact surface, the ports communicating with a supply of the agent.

4. (Currently Amended) Apparatus according to claim 3 wherein the body comprises contact surface is defined by a plate having a face defining the contact surface, the plate having apertures therein incorporating the ports and the plate is being either rigidly supported or elastically supported.

5-6. (Cancelled)

7. (Previously presented) Apparatus according to claim 2 wherein the agent comprises a curable resin and the tube structure comprises a resin absorbent material.

8. (Currently Amended) Apparatus according to claim 7 wherein the plate has a face opposed to defining the contact surface and an opposed face

thereof providing a boundary for a resin chamber from which resin may be delivered to the contact face by way of the plurality of ports ~~apertures~~ therein.

9. (Currently Amended) Apparatus according to claim 8 wherein the body has provision for applying resin to the internal surface ~~onto which the liner is presented~~.

10. (Currently Amended) Apparatus according to claim 9 wherein the body comprises a circumferential chamber which is exposed to the internal surface and which contains resin to be which is wiped on the internal surface.

11. (Currently Amended) Apparatus according to claim 10 wherein the circumferential chamber is defined between two spaced apart seals for sliding and sealing contact with the internal surface, and an inner wall extending between the two seals.

12. (Original) Apparatus according to claim 11 wherein the inner wall is defined by a flexible membrane.

13. (Previously presented) Apparatus according to claim 12 wherein the body further comprises one or more additional chambers one adjacent another axially spaced along the body.

14. (Previously presented) Apparatus according to claim 1 wherein the body incorporates a leading section for performing preparatory work on the interior surface of the conduit.

15. (Currently Amended) Apparatus according to claim 1 wherein [[the]] a forward portion of the apparatus incorporates a collection means for collecting debris within the conduit prior to installation of the liner tube structure.

16. (Previously presented) Apparatus according to claim 1 wherein the tube structure is delivered to the body in a collapsed condition and opened during eversion thereof.

17. (Cancelled)

18. (Previously presented) Apparatus according to claim 16 wherein the collapsed condition involves at least one re-entrant fold.

19. (Currently Amended) Apparatus according to claim 16 [[17]] wherein an installation cable is provided in the collapsed tube structure for assisting axial movement thereof while in the collapsed condition.

20. (Previously presented) Apparatus according to claim 16 further comprising means for establishing a "wet-out" region within the collapsed tube structure prior to eversion thereof.

21. (Original) Apparatus according to claim 20 wherein said means comprises a lance structure projecting outwardly of the contact surface and terminating at a free end, with the collapsed tube structure embracing the lance structure so that the lance structure is inserted in the tube structure as it approaches the contact face for eversion thereagainst.

22. (Original) Apparatus according to claim 21 wherein the free end of the lance structure is configured to spread the collapsed wall of the tube structure to create a cavity to receive the resin.

23. (Previously presented) Apparatus according to claim 1 wherein the body is caused to move along the conduit under the application of a driving force.

24. (Original) Apparatus according to claim 23 wherein the driving force comprises pressure applied to the body through the evertng tube structure.

25. (Original) Apparatus according to claim 24 wherein the driving force further comprises a towing force applied to the body.

26. (Currently Amended) Apparatus according to claim [[23]] 25 further comprising means for applying a retarding force to the body ~~to hold up a column of fluid within the resin pressure chamber~~.

27. (Original) Apparatus according to claim 26 wherein the retarding force is applied by way of a brake sled operatively connected to the body and in friction engagement with the interior surface of the conduit.

28-29. (Cancelled)

30. (Currently amended) A method of lining an internal surface of a conduit comprising:

locating a body and a tube structure inside providing a tube as a liner for the conduit;

everting the tube inside into the conduit whereby the tube has an inner tube portion, an outer tube portion and to form an everting portion extending between the inner and outer tube portions; [[and]]

causing the exposed face of the everting portion of the tube structure to slidably engage a contact surface of the body at which a curable resin is presented to the everting portions face of impregnation thereof and installation of the tube structure onto the internal surface of the conduit;

sensing and/or monitoring selected conditions associated with installation of the tube structure; and

varying the installation process in response to said selected conditions, wherein the steps of sensing and/or monitoring and varying of the installation process are performed by means for sensing and/or monitoring the selected conditions and means for the varying of the installation process in response to said selected conditions, respectively, which are incorporated in the body.

31-36. (Cancelled)

37. (New) A method according to claim 30 wherein at least one of the selected conditions is sensed and/or monitored with respect to the contact surface.

38. (New) A method according to claim 37 therein said at least one of the selected conditions is sensed and/or monitored through movement of the contact surface in response to the pressure extended thereon by the everting portion of the tube structure.

39. (New) A method according to claim 38 further comprising regulating delivery of the curable resin for presentation to the everting portion in response to movement of the contact surface.

40. (New) Apparatus according to claim 1 wherein at least one of the selected conditions is sensed and/or monitored with respect to the contact surface.

41. (New) Apparatus according to claim 40 wherein said at least one of the selected conditions is sensed and/or monitored through movement of the contact surface in response to the pressure exerted thereon by the everting portion of the tube structure.

42. (New) Apparatus according to claim 4 wherein the plate is elastically supported for movement in response to contact by the everting portion of the tube structure.

43. (New) Apparatus according to claim 42 further comprising means responsive to movement of the plate for regulating delivery of the agent to the everting portion of the tube structure.

44. (New) Apparatus according to claim 43 wherein said means responsive to movement of the plate comprises a proximity switch for detecting movement of the plate.